STORBURN®

Model 60K
Gas Fired Incinerating Toilet

Installation, Operation and Service Manual

CSA APPROVED

STORBURN INTERNATIONAL INC.

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FOR YOUR SAFETY

If you smell gas
1. Open Windows
2. Don't touch electrical switches
3. Extinguish any open flame
4. Immediately call your gas supplier

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

Keep this manual with unit for future reference

PRINTED IN CANADA

MODEL DESIGNATIONS MODEL 60K

LETTER SUFFIX CODE

P Equipped to burn propane gas (LPG)
N Equipped to burn natural gas

Please Note: *Unless otherwise specified your Stoburn® has been shipped with an orifice intended for 0-4000 ft above sea level. If your installation is above 4000 ft please ensure that the correct orifice is installed. Contact Storburn International should you have any questions.*

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HOW OFTEN MUST BURNER BE ACTIVATED

When chamber is full or as often as necessary according to use cycle.
Examples:

NO. OF USERS	APPROXIMATE BURN FREQUENCY
8 - 10 persons in a workplace	- at end of each shift
5 - 7 persons in a residence	- once each day
2 - 3 persons in a residence	- twice each week*
1 person only	- once per week*

** It may be necessary to increase burn frequency during extremely hot and humid weather to prevent foul odours.*
** It may take longer to burn at higher altitudes.*

VERY IMPORTANT USER INFORMATION

1. DO NOT OPERATE BURNER WITHOUT USING ANTI FOAM MK-1

   Squeeze the contents of one tube MK-1 into LIQUID PORTION of the waste before lighting burner. Sample tubes are included with your new unit. Re order from your local dealer or direct from Storburn.

   Acidic body wastes will damage burner, insulation and other vital components if allowed to foam during incineration. Damages caused by foaming are not covered under Manufacturer's Warranty.

2. MAIN BURNER AND PILOT BURNER MUST BOTH BE REMOVED AND CLEANED ONCE A YEAR under normal operating conditions and more often if unit is heavily used or installed in a dusty area. (See "PREVENTIVE MAINTENANCE" section for details).

   Main burner is fabricated of corrosion resistant stainless steel but, because of constant exposure to air-borne corrosive salts, it will require replacement any time after one year. Frequency of replacement is determined by extent of use. IMPORTANT NOTE: If burner and burner pad are subjected to urine foaming, complete deterioration will take place within a few burn cycles. Continued operation with corroded burner will damage combustion chamber and ceramic insulation.

   BURNER INSPECTION RECORD | Date Unit Installed Mo Yr |

LAST INSPECTION	Mo Yr	Mo Yr	Mo Yr
Mo Yr	Mo Yr	Mo Yr	Mo Yr
Mo Yr	Mo Yr	Mo Yr	Mo Yr

3. LIMITED WARRANTY

   Storburn International Inc. warrants the STORBURN® Model 60K for one year from the date of original sale or original use, whichever occurs first, according to the terms outlined below.

   Any part of the Model 60K, when found by our examination to be defective in workmanship or material, will be replaced on an exchange basis, to the original owner, at the factory or authorized service centers.

   Storburn will not be responsible for any transportation cost, mileage charge, or outside service call charge incidental to any replacement.

   This warranty will not apply when component failure is caused by:

   1. Operation in a manner other than specified in Owner's Manual.
   2. Urine Foaming.
   3. Damage or deterioration from mishandling, misuse, neglect or any other subnormal factor.
   4. Improper installation or venting.
   5. Improper fuel supply.

   It is the responsibility of the owner to validate the warranty by returning the registration card within 30 days of the original purchase or original use, whichever occurs first. Failure to return the registration card within such period shall place the burden of proving the date of original purchase or original use on the owner and the warranty period will begin no later than six months after date of manufacture.

DISCLAIMER OF OTHER WARRANTY

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

LIMITATIONS OF DAMAGES

STORBURN LIABILITY TO THE PURCHASER WHETHER IN CONTRACT OR IN TORT ARISING OUT OF WARRANTIES, REPRESENTATIONS, INSTRUCTIONS OR DEFECTS, FROM ANY CAUSE, SHALL BE LIMITED TO CORRECTING THE EQUIPMENT IN THE MANNER SET OUT ABOVE. STORBURN SHALL NOT IN ANY EVENT BE LIABLE FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES.

CONDITIONAL GUARANTEE

WHEN INSTALLED, OPERATED AND MAINTAINED IN STRICT CONFORMITY WITH ALL MANUFACTURER'S INSTRUCTIONS, MODEL 60K GIVES OFF NO FOUL ODOURS INDOORS OR OUTDOORS.

4. INSTALLATION/COLD WEATHER OPERATION/VENTING - *(See Illustration 1)*

Proper installation is critical and should be done by a qualified gas appliance installer. In the U.S.A., refer to your local codes or in the absence of local codes, the National Fuel Gas Code Z223.1-1984 and NFPA Pamphlet No. 54. In Canada refer to Standard CGA B149.2 for propane and Standard CGA B149.1 for natural gas. Any special local codes must also be observed. Storburn® Model 60K is not tested or certified under Manufactured Home Construction and Safety Standard Title 24 CFR, Part 32-80.

A. Clearances - minimums for accessibility and from combustible material:

Sides 4" Rear 3"

Provision must be made for ready removal of the unit from its installation for servicing components. *(See Illustration 1)*. Clearance must be provided for combustion and ventilating air flow and air flow must not be obstructed during operation.

B. Provision must be made in the room or enclosure for make up air, therefore the Model 60K must not be installed in an airtight room or enclosure. Do not use exhaust fans in rooms where Storburn is installed.

C. Install the unit on a flat, level, hard surface. Do not install on rug or carpet. The air space between the floor and the bottom of the cabinet must be kept clear from front to back. Keep general area clear of gasoline, other flammable liquids and vapours and any debris or combustible materials.

D. Units installed in portable buildings must be secured firmly to floor. *(See Illustration 1)*.

E. Gas line connection is a 3/8" NPT female inlet located at the rear of the unit. For propane, a min.1 /2" OD copper tubing is recommended up to 40 ft. Larger pipe size may be required for longer runs or if additional appliances are connected. Tubing should also be internally tinned. For natural gas, a min.1/2" back iron pipe is recommended. All gas line connections should be checked for leaks using a soap solution or other suitable means. NEVER use a match or other open fame for this test. A manual shut off valve and union *(See Illustration 1)* are supplied with the Model 60K. Pipe joint compounds used for sealing threaded joints must be of a type specified for use with liquefied petroleum gases (propane). Minimum gas supply pressure is 11" w.c. for propane and 6" w.c. for natural gas. Manifold pressure is 10" w.c. for propane and 5" w.c. for natural gas. Maximum gas supply is 14" w.c.

F. The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig.

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to less than 1/2 psig.

G. Cover lockout switch is a safety shutoff device and must be tested after installation is complete. Light main burner *(see **"Operation"** Page 5)* then lift cover plug *(III. 2, Page 6)* Pilot flame and main burner must be shut-off.

COLD WEATHER OPERATION:

Ensure that propane cylinders have the capacity to vaporize sufficient fuel for a minimum of 4 hours continuous operation at 40,000 BTU's/hr.

VENTING

Type L double wall stainless steel vent pipe must be used. Vent pipe must be 6" ID. Fasten vent pipe to the Model 60K vent collar with screw provided. In the U.S.A., install vent pipe in strict conformity with National Fuel Gas Code Z223 1-1984. Allowable clearances to combustible material must be strictly observed. In Canada, refer to Standard CGA B149.2 or CGA B149.1.

Units are shipped with vent collar packed loose in combustion chamber. Fasten collar to top of unit with screws provided before attaching vent.

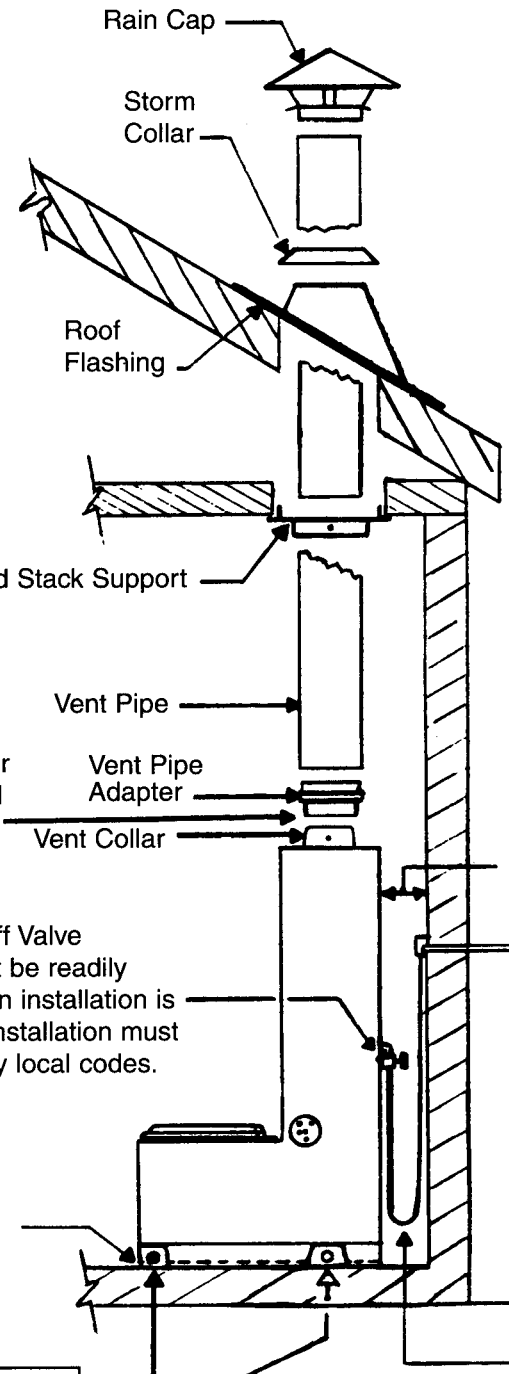
The Model 60K is a convention draft unit. Vents must have a vertical final exit and be capable of generating a natural convention. To avoid downdraft, the top of the vertical vent should be at least 24" above the highest point of the roof or other nearby obstruction. Use only a type of rain cap that will not inhibit convection draft.

Vents or vent connectors located so that they could be contracted during casual use of the room in which the Model 60K is installed must be protected or shielded to prevent such contact.

ILLUSTRATION 1
TYPICAL INSTALLATION

Do NOT use Type "B"Aluminium Gas Vent. Use ONLY 6" diameter Type "L" Double Wall Stainless Steel Vent.

DO NOT INSTALL IN AIR-TIGHT ROOM OR ENCLOSURE.



IMPORTANT: TO ALLOW FOR SERVICE ACCESS

Weight of vent stack must not bear on unit. Support as shown or in other approved method so that unit can later be disconnected from vent stack without disturbing roof caulking or storm collar.

FOR SERVICE ACCESS

1. Disconnect vent collar from unit.
2. Pull unit away from wall.
3. Remove back panel.

When assembled, fasten Adapter (or pipe) to Vent Collar with sheet metal screw provided. Drill 7/64" hole to install screw.

Manual Shut Off Valve
This valve must be readily accessible when installation is complete and installation must comply with any local codes.

INSTALL PROPER REGULATOR

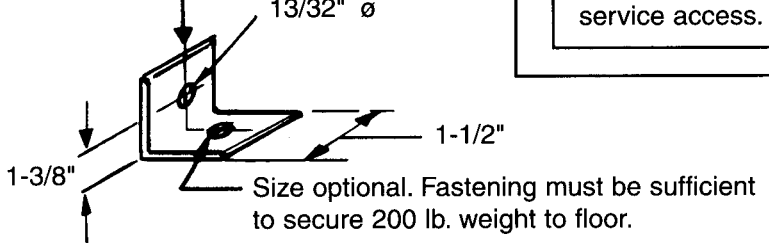
Install unit on flat, level, hard surface. Do not install on rug or carpet. Air space between bottom of unit and floor must be kept clear from front to back.

IMPORTANT
Use approved flexible gas supply tube. Install sufficient extra tube to accommodate pulling unit away from wall for service access.

UNITS INSTALLED IN PORTABLE BUILDINGS MUST BE SECURED

2 pieces 1/8" x 2" - 1-1/2" long steel or aluminium angles may be fastened to diagonally opposite corners of unit with 1/4 x 3/4 hex head mounting base screws. Fasten angles securely to floor.

CAUTION: DO NOT SHIFT UNIT WITH HEX HEAD SCREWS REMOVED.



Size optional. Fastening must be sufficient to secure 200 lb. weight to floor.

5. CAPACITY & GENERAL PROCEDURE

Store cover plug out of the way until required for incineration. The Model 60K will store approximately 40 to 60 uses before incineration is required. Do not overfill. Overfilling causes spillage and odour. The top of the short leg located between the reinforcement ribs on the right side of the chamber indicates maximum fill level. If so desired, aerosol masking foam may be applied to provide covering blanket over stored waste. A sample can is included with your new unit. Apply according to instructions on the can. Re order from your local dealer or Storburn factory.

The Model 60K is not designed for use as an all purpose incinerator. Confine use to normal toilet wastes and tissue. Avoid excessive deposits of paper materials as wet paper is difficult to burn and could required extra burn cycles.

Loads consisting mostly of solids rather than a balance of solids and liquids are difficult to burn in one cycle. Add 2 or 3 quarts to such loads to aid the normal process.

Remove ash residue after every second burn cycle. *(See Care and Cleaning Section).*

6. DO NOT INCINERATE FLAMMABLE OR EXPLOSIVE LIQUIDS

OPERATING INSTRUCTIONS: *(see illustration 2 for location of operating controls)*, TURN GAS SUPPLY ON THEN FOLLOW INSTRUCTIONS IN EXACT SEQUENCE AS FOLLOWS:

1. Squeeze the contents of one tube ANTI-FOAM MK-1 into the liquid portion of the waste. WARNING: DO NOT OPERATE WITHOUT USING MK-1.
2. Insert key rod into key hole and lower cover plug into top deck opening.
3. Turn timer knob clockwise to recommended setting *(see bottom of page)*.
4. Partially depress and turn gas cock handle to "PILOT" position.
5. Depress gas cock handle and press snap igniter button repeatedly until pilot lights. Hold gas cock handle in depressed position for approximately 1 minute after pilot flame lights then release. If pilot does not remain on, repeat sequence starting with step 4.

   NOTE: Time must be allowed for air to escape from lines during first operation and after periods of non-use.
6. When pilot remains on, light main burner by turning gas cock handle counter clockwise to "ON" position. CAUTION: If re-lighting of main burner is required, partially depress and turn gas cock handle clockwise to "OFF" position. Wait 5 minutes to allow gas which may have accumulated in the main burner compartment to escape.
7. Unit will shut off automatically.

   FOR EMERGENCY SHUT DOWN: Partially depress gas cock handle and turn clockwise to "OFF" position or turn manual shut off valve 90° to pipe axis.

WARNING: DO NOT REMOVE COVER PLUG DURING INCINERATION CYCLE OR UNTIL UNIT IS COOL.

Premature removal of cover plug will shut down burner and allow foul odours to escape.

DO NOT attempt to use the unit until the storage/combustion chamber has cooled after the completion of the incineration cycle. The cooling time will vary depending on ambient temperatures and length of incineration cycle. Through experience, sufficient cooling time will quickly be determined according to prevailing conditions.

RECOMMENDED TIMER SETTING

Full Load - 4 Hours

3/4 Load - 3-1/2 Hours

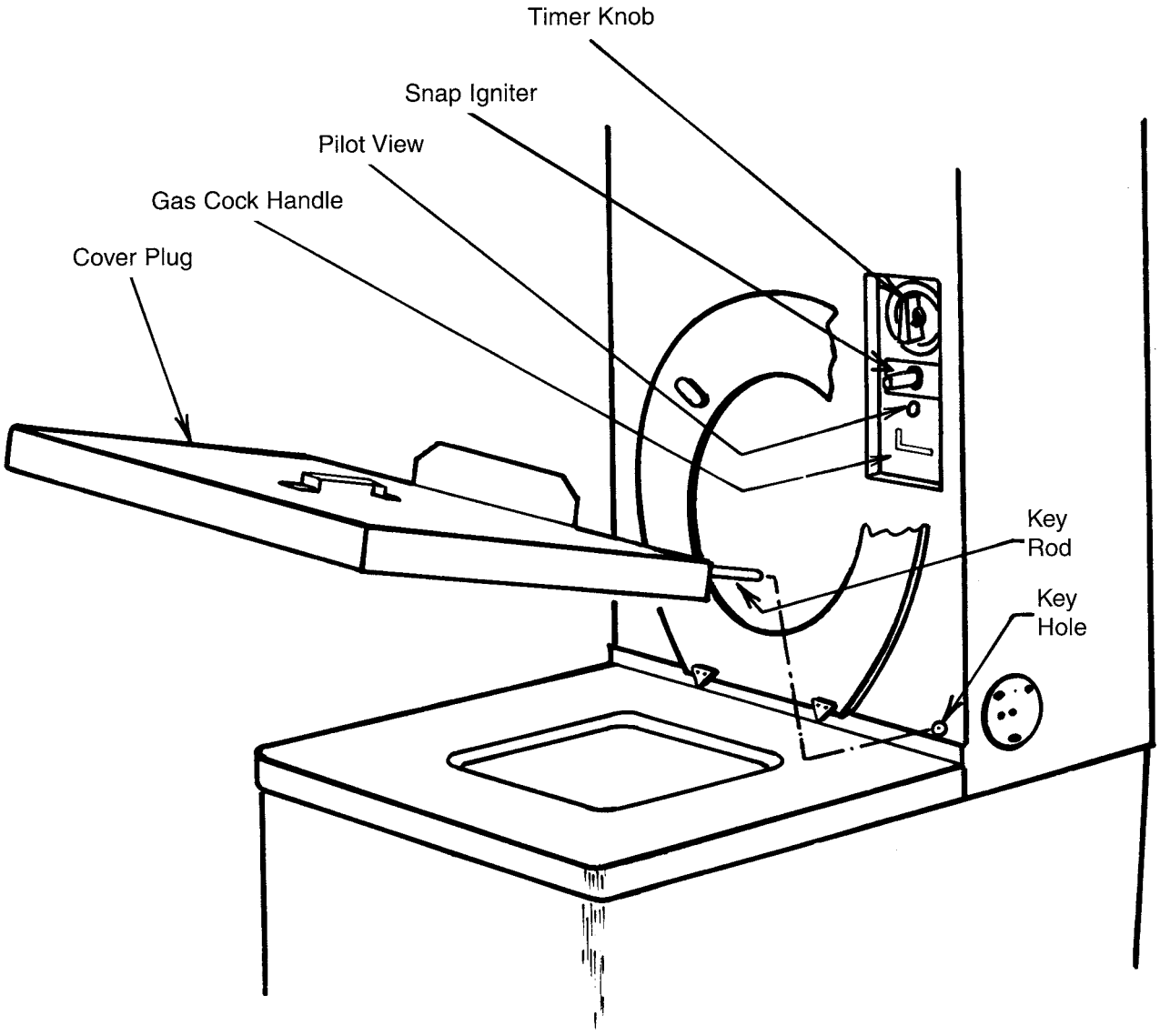
1/2 Load - 3 Hours

1/4 Load - 1-1/2 Hours

These settings are approximate. Loads consisting mainly of liquid wastes require less incineration time than loads with a higher percentage of solid wastes. If timer setting is too low, ash residue will be moist and odorless. The ash may be incinerated more completely with an increased timer setting during the next burn cycle.

Consistently low timer settings will allow residue buildup which reduces incineration efficiency and increases fuel consumption. It also allows foul odors to escape when burner shuts off.

ILLUSTRATION 2
LOCATION OF OPERATING CONTROLS



7. REGULAR CARE AND CLEANING

Remove ash after every second burn cycle. Dry, completely incinerated waste is normally powdery, sterile, not messy or odorous, and takes only a minute to remove with a shallow ladle scoop or vacuum. *(Vacuum only when ash is cold.)*

Avoid excessive ash build-ups. Postponement of ash removal will allow the salts to form a lava-like deposit which sticks to the chamber, lessens incineration efficiency, and makes removal difficult. To aid in the removal of this hard material, pour three quarts of water into the chamber, light burner and run for one hour. Do not run unit through dry cycles. Allow unit to cool, then scoop out loosened material. Repeat if necessary.

The fully incinerated ash may be disposed of the same as dirt from your vacuum cleaner. It is harmless and not an ecological detriment.

Never leave raw unburned waste in the unit for any extended time, e.g. During seasonal shut downs, vacations, etc.

To clean exterior of the unit, use a soft cloth or towel and a solution of mild soap and water. Do not use scouring pads.

Caustic type toilet bowl cleaners are formulated for use in water type toilets. It is not necessary to use these in Storburn because intensive heat sterilizes the storage/combustion chamber during each burn cycle.

The air space between the bottom of the cabinet and the floor must always be kept clear.

8. PREVENTATIVE MAINTENANCE

See Illustration 1, Illustration 3, and Illustration 3A for service access.

1. Main burner must be removed for inspection and thorough cleaning at least once a year or more often as conditions dictate. Use wire brush to remove dirt and carbon from burner tube surface. Also remove dirt and carbon from each individual burner port. A sharp object may be used for this purpose but due care must be taken to avoid distorting the ports.

   Main burner is fabricated of corrosion resistant stainless steel but, because of constant exposure to air borne corrosive salts, it will require replacement any time after one year of normal use. Frequency of replacement is determined by extent of use. NOTE: If burner and burner pad are subjected to urine foaming, complete deterioration will take place within a few burn cycles. Continued operation in this condition will severely damage combustion chamber and ceramic insulation. DO NOT OPERATE BURNER WITHOUT USING ANTI FOAM MK-1.

   When the surface of the burner tube is flaking or if interior of tube contains a significant amount of debris, the burner (Part No. 186 K16) should be replaced. Always replace burner pad (Part No. 186-12-K2) along with burner *(See Illustration 3A for details).*

2. Inspect pilot burner/spark electrode assembly yearly and clean if necessary.
3. Clean pilot reflector mirror. Use soft cloth or paper to avoid scuffing reflector surface.
4. Examine vent pipe at least once each year for signs of deterioration. Replace sections as necessary.

ILLUSTRATION 3

To Remove Main Burner For Service.

1. Remove Back Panel (see illustration 1 "For Service Access")
2. Disconnect Main Burner Gas Line
3. Remove Burner Set Screw
4. Pull Burner Back with slight back & forth twisting motion
5. When gas lines are reconnected, test for leaks using a soap solution or other suitable means. NEVER use a match or open flame to test for leaks.

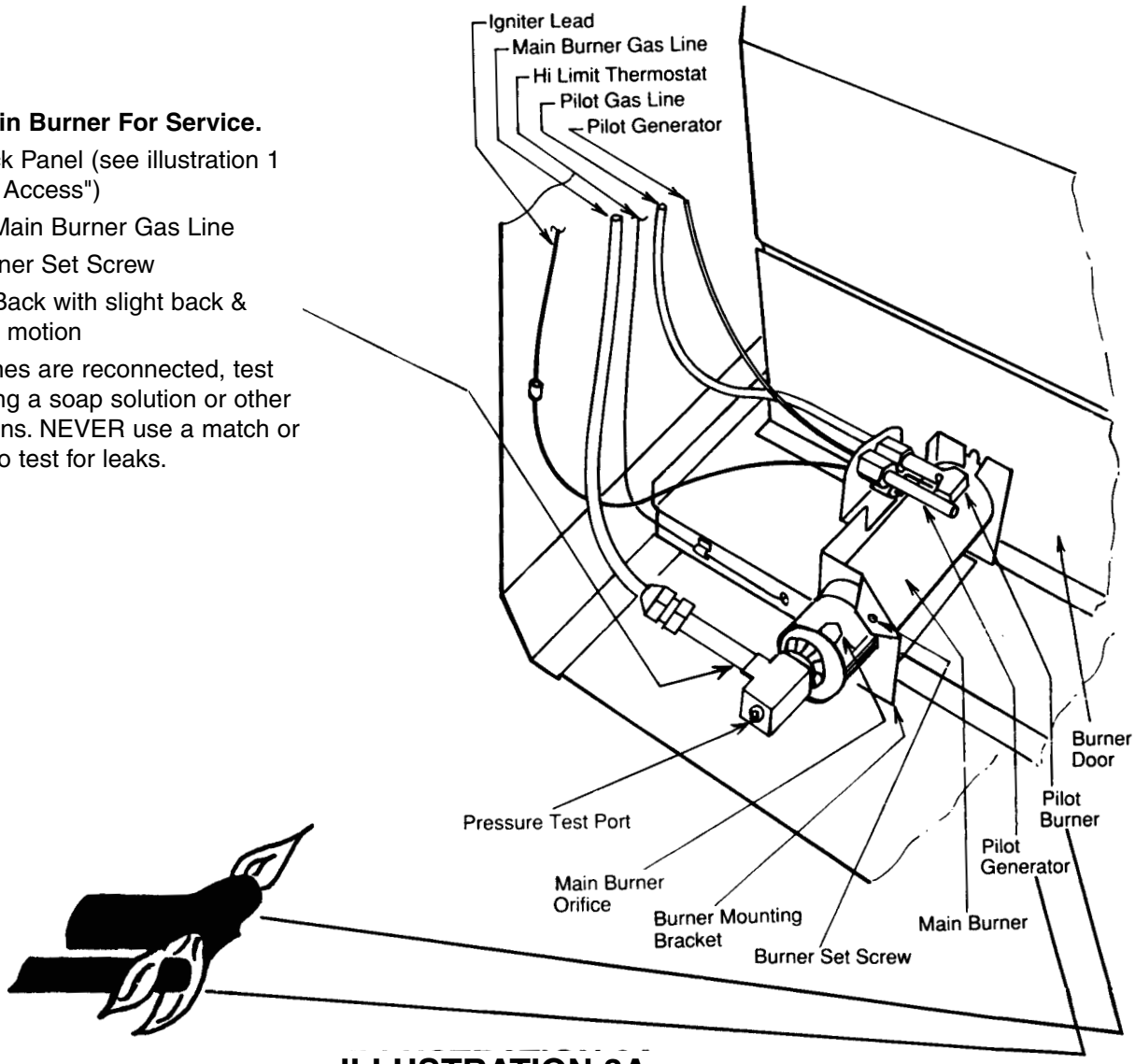
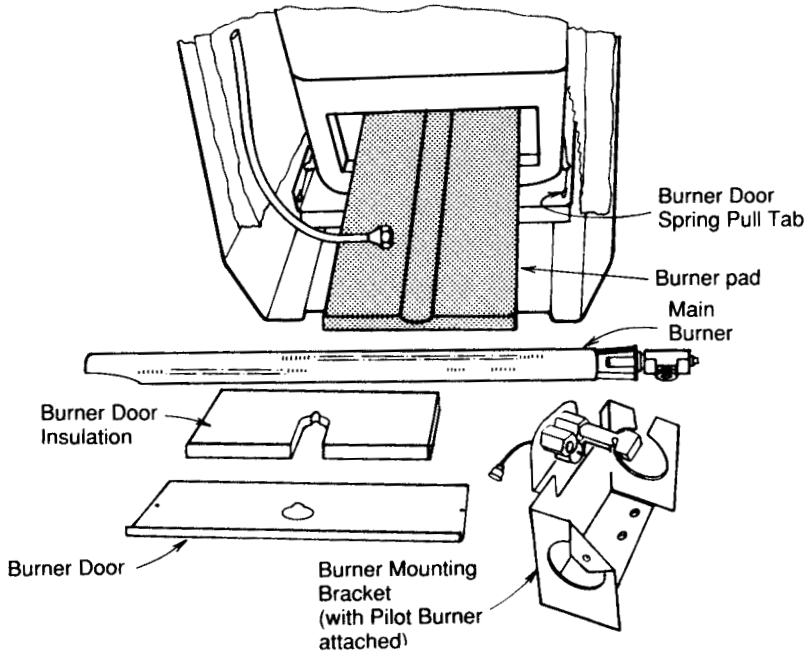


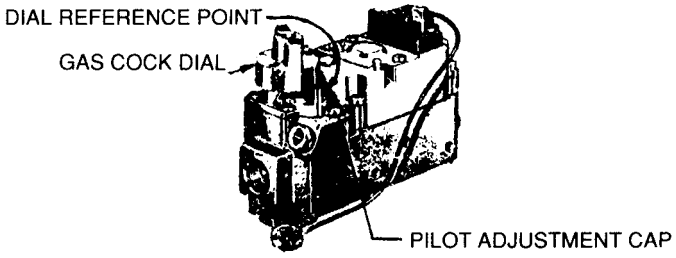
ILLUSTRATION 3A
BURNER PAD REPLACEMENT

1. Remove main burner (follow all steps shown in illustration 3)
2. Disconnect Pilot Gas Line and Pilot Generator OR dismount complete Pilot Burner/Igniter Electrode assembly from Burner Mounting Bracket.
3. Remove Burner Mounting Bracket
4. Remove Burner Door and Burner Door Insulation
5. Remove Old Burner Pad and inspect area under Chamber
6. Clean out all debris and dust before inserting new Pad.



9. GAS CONTROL VALVE

MILLIVOLT ACTUATED CONTROL VALVE



WARNING

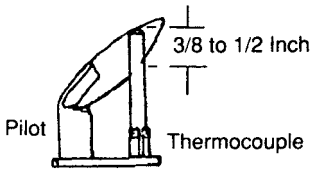
1. DO NOT use this control if it has been exposed to water corrosion through immersion, dripping, etc. It may be damaged and must be replaced.
2. DO NOT insert any object other than suitable pipe or tubing in the inlet or outlet of this control. Internal damage may occur and result in a hazardous condition.
3. DO NOT connect appliance before pressure testing gas piping. Damage to gas valve may result.
4. DO NOT grip control body with a pipe wrench or vice. Damage may result causing gas leakage. Use inlet or outlet bosses, or special body wrench.
5. DO NOT use Gas Cock Dial to adjust gas flow.
6. In changing from natural to L.P. gas, or vice versa, burner and pilot orifices must also be changed. NOTE: L.P. gas does not vent upward naturally.
7. A drip leg should be provided in the supply line to the control.
8. Leak test with a soap solution with main burner "ON".

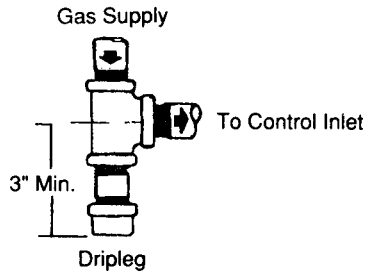
Pilot burner has been factory set for proper operation. The instructions shown here are provided for reference in the event adjustment is required at a future time.

This procedure should be carried out only by a qualified gas control service personnel.

PILOT BURNER ADJUSTMENT:

1. Remove Pilot Adjustment Cap
2. Adjust pilot key to provide properly sized flame.
3. Replace Pilot Adjustment Cap.





SERVICE WARNING:

Disassembly, reassembly or internal adjustment without factory test may result in hazardous condition.

For safety, only qualified gas control service personnel should perform tests and/or repairs.

REGULATOR REPLACEMENT

1. Partially depress and turn Gas Cock Dial to "OFF"
2. Remove:
   a. Two screws through regulator
   b. Regulator
   c. Gasket
3. Install gasket, regulator, and two screws from conversion kit #82445 thru 82449.
4. Turn gas cock to "PILOT" and light pilot. Turn to "ON". Leak test with soap solution with main burner "ON".

   * To convert from unregulated to regulated control, remove and discard screws, cover plate and gasket, then proceed with the above regulator replacement steps 3 and 4.

REGULATOR ADJUSTMENT

Regulators are factory set. When required, re-adjust as follows:

1. Turn gas cock "OFF", remove pressure tap plug and attach manometer (see picture).
2. Turn gas cock to "PILOT", light and turn to "ON", remove regulator cap, turn adjusting screw with blade screwdriver to change pressure (clockwise to increase).
3. Turn gas cock "OFF", remove manometer, replace pressure tap plug.
4. Turn gas cock to "PILOT", light and turn to "ON", and leak test with soap solution with main burner "ON".

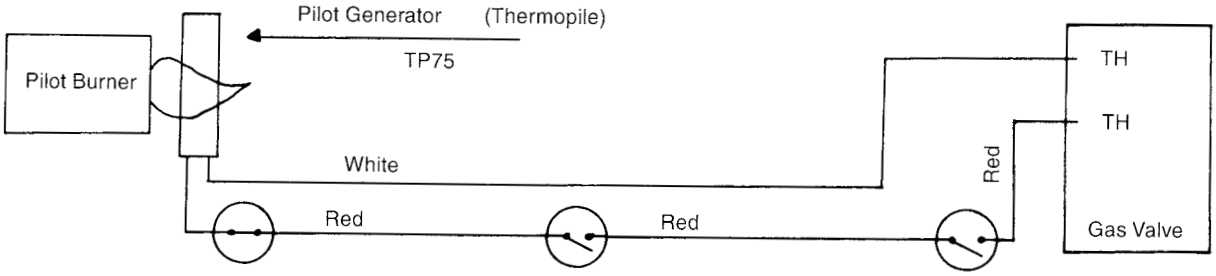
NOTE: In replacements and conversions use only the new parts provided.

WARNING: When changing to LP or natural gas, or to regulated or unregulated control, burner orifices must be changed.

NOTE: AGA certification does not authorize conversion to natural gas.

NOTE: Conversion not permitted by CGA

ILLUSTRATION 4
WIRING DIAGRAM
VALVE AND THERMOPILE



HI-LIMIT SAFETY THERMOSTAT	COVER LOCKOUT SWITCH	OPERATING CONTROL MECHANICAL TIMER
Normally closed.	Normally open.	Normally open.
Opens on temperature rise.	Closed when cover is inserted.	Closes when timer is activated.
Re-closes automatically on cooling.	Opens when cover is removed.	Opens when timer cycle expires.

10. SERVICE/TROUBLESHOOTING

See Illustration 2, Illustration 5 and Illustration 6 for physical location of components.

See Illustration 4 for wiring connection diagram

PILOT BURNER DOES NOT LIGHT

1. Check fuel supply. All fuel line valves must be open.
2. Press snap igniter button and observe if spark arcs between igniter electrode and pilot burner hood. If spark is not visible, check wire connections. Replace snap igniter if necessary.
3. Pilot orifice may be plugged. Clean or replace.
4. Pilot filter may require replacement.
5. Check pressure regulator (Key 60 ill. 5) see rating plate for correct pressure (Key 1 F ill. 5).

PILOT BURNER LIGHTS BUT DOES NOT SUSTAIN WHEN GAS COCK HANDLE IS RELEASED

Ensure that all lead wire connections are clean and tight.

Light pilot burner and sustain manually to conduct each of the following tests.

If a millivoltmeter is NOT available proceed to step 1 below.

1. Jumper pilot generator junction block and light pilot. A. If pilot sustains, remove jumper and proceed to step 2. B. If pilot does not sustain, check for following: - Pilot flame is too low, clean orifice (Key 38B ILL 6) and check pilot filter - Pilot generator is faulty - Gas control Valve is faulty - Gas pressure is too low
2. Jumper hi-limit thermostat terminals. If pilot sustains, thermostat is faulty. If pilot does not sustain, remove jumper and proceed to step 3.
3. Jumper wire leads at cover lockout switch. If pilot sustains, either the key rod was not closing switch properly or switch is faulty. If pilot does not sustain remove jumper and proceed to step 4.
4. Check operating control. Jumper timer terminals. - If pilot sustains, either the timer was not set or it is faulty.

CAUTION: REMOVE JUMPERS AFTER EACH TEST

ERRATIC PILOT FLAME OUTAGE DURING CYCLE

1. Ensure that all lead wire connections are clean and tight.
2. Ensure that fuel supply is constant.
3. Ensure that cover plug lock-out switch is properly installed and is being securely closed by cover plug key rod.

PILOT BURNER LIGHTS & SUSTAINS BUT MAIN BURNER DOES NOT LIGHT

1. Gas cock handle must be rotated counter-clockwise from PILOT to ON.
2. Main burner orifice may be plugged.

UNIT EMITS FOUL ODORS WHILE BURNING

1. Check gas pressure (also see Paragraph 7 below, OPERATION DURING EXTREME COLD).
2. Main burner may require cleaning.
3. Main burner orifice may be partially plugged.
4. Vent stack may be improperly installed or obstructed.
5. Accumulated ash residue may be reducing burner efficiency
6. Timer set too low.
7. Unit may be shutting down prematurely - see "ERRATIC PILOT" Section above.

WASTE NOT COMPLETELY BURNED IN ONE CYCLE

NOTE: If waste does not burn in one cycle the problem must be identified and corrected. Frequent repetition of burn cycle causes overheating and damage to unit.

1. Do not overload. Avoid excessive deposits of paper material.
2. Remove ash residue more often. Accumulated ash residue reduces burner efficiency.
3. Main burner may require cleaning.
4. Main burner orifice may be partially plugged.
5. Model 60K only - timer setting too low or timer is faulty and shutting down prematurely.
   NOTE: Allowable tolerance for timer inaccuracy is 6 minutes per hour.
6. If burner and burner pad have been subjected to urine foaming, the burner pad may have lost its insulating value, thereby allowing excessive heat loss which causes hi-limit thermostat to open before burn cycle has completed. Burner pad also deteriorates with age under normal use conditions.
7. Ensure that gas pressure at main burner is correct and remains correct through the entire cycle.
   FOR OPERATION OF PROPANE FUELED UNITS DURING EXTREME COLD WEATHER: Model 60K rating is 40,000 BTU's/hr. at 10" w.c. manifold pressure. Ensure that propane cylinders have the capacity to vaporize sufficient fuel for a minimum of 4 hours continuous operation.
8. Ensure that unit is level.
9. Unit may be shutting down prematurely - see "ERRATIC PILOT" Section above.

11. STORAGE

- Never leave raw unburned waste in the unit for any extended time, e.g. during seasonal shut downs, vacations, etc.
- Remove ash and clean thoroughly
- Shut off gas supply
- Disconnect vent collar and seal vent opening on unit.
- Seal outside vent pipe to prevent moisture from entering building. Remember to remove seal when re-connecting unit.
- Insert cover plug.
- Store the unit in a dry place.

12. REPLACEMENT OF TOILET SEAT AND LID ASSEMBLY

Model 60K seat and lid assembly (Part No. 186-K21A) has special resistant qualities. In the event that it becomes necessary to replace it, the replacement must be ordered from the factory or from your authorized dealer. Local purchase of any other model seat and lid assembly is not authorized.

13. PARTS LIST AND ORDER INFORMATION

Parts may be ordered from your local dealer or direct from Storburn as follows:

STORBURN INTERNATIONAL INC.
47 Copernicus Blvd., Unit #3,
Brantford, Ontario,
Canada N3P 1N4
Phone (519) 752-8521 • Fax (519) 752-5827
TOLL FREE 1-800-876-2286
e-mail: info@storburn.ca
website: www.storburn.ca

When ordering repair parts always give the following information:

1. Part Number
2. Part Name
3. Unit serial number (located on rating plate affixed to upper right side of cabinet).

DO NOT ORDER BY KEY NUMBER

Parts subject to change or substitution without notice.

PARTS LIST

ILL. NO.	KEY NO.	PART NO.	NO. PER UNIT	PART NAME
5	1	186-K20	1	Fiberglass Cabinet
5	1A	186-K20A	6	Fastener
5	1C	SAL-KM6	1	Control Panel Label
5	1D	SAL-K8	1	Installation Caution Label
5	1E	SAL-K9	1	Storburn Name Label
5	1F	SAL-K1	1	Rating Plate
5	2	186-K19	1	Top Deck Cover
5	2A	8 x 1/2 SS	12	Phillips Truss Head Self Tapping Screw - Stainless Steel
5	3	186-K21A	1	Toilet Seat & Lid Assembly c/w Nuts & Washers
5	4	186-17-KCA	1	Cover Plug - Complete Assembly (for components see ill. 7)
				Cover Plug Components - Keys 4A thru 4L
7	4A	186-17-K1	1	Cover Plug Shield c/w Insulation
7	4B	6 x 1/2	6	Hex/Slot Head Self Tapping Screw - Plated
7	4C	SAL-K10	1	Operating Instructions Label
7	4D	SAL-K11	1	"For Your Safety" Label
7	4E	SAL-K12	1	"Very Important" Label
7	4F	186-17-K3	1	Cover Plug Handle
7	4G	6 x 3/8	4	Hex/Slot Head Self Tapping Screw
7	4H	186-17-K4	1	Cover Plug Body c/w Insulation
7	4J	186-17-K6	1	Cover Plug Body Gasket
7	4K	186-17-K7	1	Cover Plug Key Rod
7	4L	186-17-K7A	2	Key Rod Bolt c/w Nut

PARTS LIST CONTINUED

ILL. NO.	KEY NO.	PART NO.	NO. PER UNIT	PART NAME
5	5	186-60-K1	2	Fiberglass Batt Insulation Side Cabinet
5	6	186-60-K2	1	Fiberglass Batt Insulation Front Upper Cabinet
5	7	186-60-K3	1	Fiberglass Batt Insulation Top Cabinet
5	8	186-K55	5	Batt Support Clip
5	8A	8 x 1/2	5	Hex/Slot Head Self Tapping Screw - Plated
6	9	186-K105	1	Hi Limit Thermostat Line Clip
6	9A	6 x 3/8	1	Hex/Slot Head Self Tapping Screw - Plated
6	10	186-K11	1	Hi Limit Thermostat Guide Tube c/w Tube Retainer & Screw
6	11	186-K14	1	Mounting Base
5	11A	186-K14A	4	Mounting Base Bolt c/w Washer
6	12	186-K10	2	Chamber Side Leg Mount
6	12A	186-K100A	4	Mount Leg Bolt
6	13	186-K101	2	Chamber Side Mount Spacer
6	14	186-K102	2	Chamber Side Mount Bolt c/w Nut
6	14A	186-K135	2	Chamber Aligning Bolt
6	15	186-K103	1	Chamber Front Leg Mount
6	15A	186-K100A	2	Mount Leg Bolt
6	16	186-K104	1	Chamber Front Mount Bolt c/w Nut
6	17	186-K13K	1	Combustion Chamber
6	18	186-K15	1	Air Intake Chute
6	19	186-12-K1	1	Moulded Insulation - Lower Body
6	20	186-12-K2	1	Moulded Insulation - Burner Pad
6	20A	186-K134	1 pr.	Flame Spreader - left and right
6	20B	186-K134A	4	Flame Spreader Bolt c/w Nut and Washer
6	21	186-12-K3	1	Moulded Insulation- Rear Chamber
6	22	186-12-K4	1	Moulded Insulation - Air Intake Chute
6	23	186-12-K5	1	Moulded Insulation - Burner Door
6	24	186-12-K6	1	Moulded Insulation - Top Deck
6	25	186-12-K7	1	Moulded Insulation - Chimney
5	26	186-12-K8	2	Moulded Insulation - Draft Hood Side
5	27	186-12-K9	1	Moulded Insulation - Draft Hood Top
6	28	186-12-K10		1" wide Blanket Strip - Joint Sealing - Total Length 83"
6	29	186-12-K11		2" wide Blanket Strip - Joint Sealing - Total Length 7"
6	30	186-K23	1	Burner Door
6	31	186-K23A	2	Burner Door Spring c/w Pull Tabs
6	32	186-K99	1	Chimney Belt
6	33	186-K99A	2	Chimney Belt Spring
5	34	186-K21	1	Draft Hood Body
5	34A	186-K21B	4	Draft Hood Mount Bolt c/w Nut 8 -32 x 1/2" Phillips Pan Head Machine Screw
5	35	186-K106	2	Draft Hood Insulation Support Clip
5	35A	6 x 3/8	6	Hex/Slot Head Self Tapping Screw- Plated
5	36	186-K32	1	Draft Hood Plate
5	36A	6 x 3/8	6	Hex/Slot Head Self Tapping Screw - Plated
5	37	186-K31	1	Vent Collar
5	37A	6 x 3/8	2	Hex/Slot Head Self Tapping Screw- Plated

PARTS LIST CONTINUED

ILL. NO.	KEY NO.	PART NO.	NO. PER UNIT	PART NAME
6	38	186-18-KP114	1	Propane (LPG) Only - Pilot Burner/Igniter Electrode Assembly c/w Orifice
6	38B	186-18-KP114A		Propane Pilot Orifice Only
6	38A	6 x 3/8	2	Hex/Slot Head Self Tapping Screw - Plated
		186-18-KN115	1	Natural Gas Only - Pilot Burner/igniter Electrode Assembly c/w Orifice
		186-18-KN115A		Natural Gas Pilot Orifice Only
6	39A	186-K107	1	Pilot Burner Gas Line c/w Fittings
6	40	186-K98	1	Burner Mounting Bracket
6	40A	8 x 3/8 A	2	Hex/Slot Head Self Tapping Screw - Plated
6	41	186-K16	1	Main Burner
				NOTE: Burner Pad, Part No. 1 86-12-K2, should always be replaced along with burner
6	41A	6 x 3/8	1	Hex/Slot Head Self Tapping Screw - Plated
6	42	3305-48	1	Propane (LPG) Units Only - Main Burner Orifice
		3305-34	1	Natural Gas Units Only - Main Burner Orifice
6	43	3305-PN	1	Pal Nut
6	44	3305-OH	1	Orifice Holder - Brass
6	45	3305-UT	1	Female Union Tee 1/8 x 1/8 x 1/8 NPT - Brass
6	46	3305-PP	1	Pipe Plug 1/8 NPT- Brass
	47A	3305-P		3/8" Pipe, 3" Length
6	47B	3305-M	1	3/8" Male to Flare Adapter
5 & 6	48	186-K67	1	Main Burner Gas Line c/w Fittings
4, 5 & 6	49	TP75	1	Pilot Generator (Thermopile)
4, 5 & 6	50	186-K12	1	Hi Limit Thermostat Assembly
5	50A	6 x 3/8	2	Hex/Slot Head Self Tapping Screw - Plated
4 & 5	51	7000 MLC		Gas Control Valve
5	55	186-K109	2	Control Valve Mounting Screws
5	56	186-K110	1	Gas Cock Handle c/w Cotter Pin
5	57	186-K120	1	3/8 Street Elbow
5	60	186-K122	1	3/8 x 1-1/2 Pipe Nipple
5	61	186-K123	1	3/8 Pipe Union
5	52	186-KHD	1	Heat Duct
5	63	186-K113	1	Controls Mounting Bracket
5	63A	8 x 1/2	4	Hex/Slot Head Self Tapping Screw - Plated
4 & 5	64	186-KM125	1	Mechanical Timer - Operating Control
5	64A	186-KM126	1	Timer Mounting Nut
5	65	186-KM127	1	Timer Knob
5	65A	8 x 1/2	1	Hex/Slot Head Self Tapping Screw - Plated
5	66	3-1000	1	Snap Igniter c/w Lead Wires
5	67	186-K91	1	Snap Igniter Mounting Bracket
5	67A	6 x 3/8	2	Hex/Slot Head Self Tapping Screw - Plated
4 & 5	68	186-K48	1	Cover Lockout Switch c/w Mounting Bracket
5	68A	6 x 3/8	2	Hex/Slot Head Self Tapping Screw - Plated
5	70A	6 x 3/8	3	Hex/Slot Head Self Tapping Screw- Plated
5	71	186-K26	1	Back Panel
5	71A	8 x 1/2	11	Hex/Slot Head Self Tapping Screw - Plated
5	71B	186-K124	1	Pilot Reflector Mirror
				WIRES - See Illustration No. 4

ILLUSTRATION 6 COMPONENTS - INNER ASSEMBLY

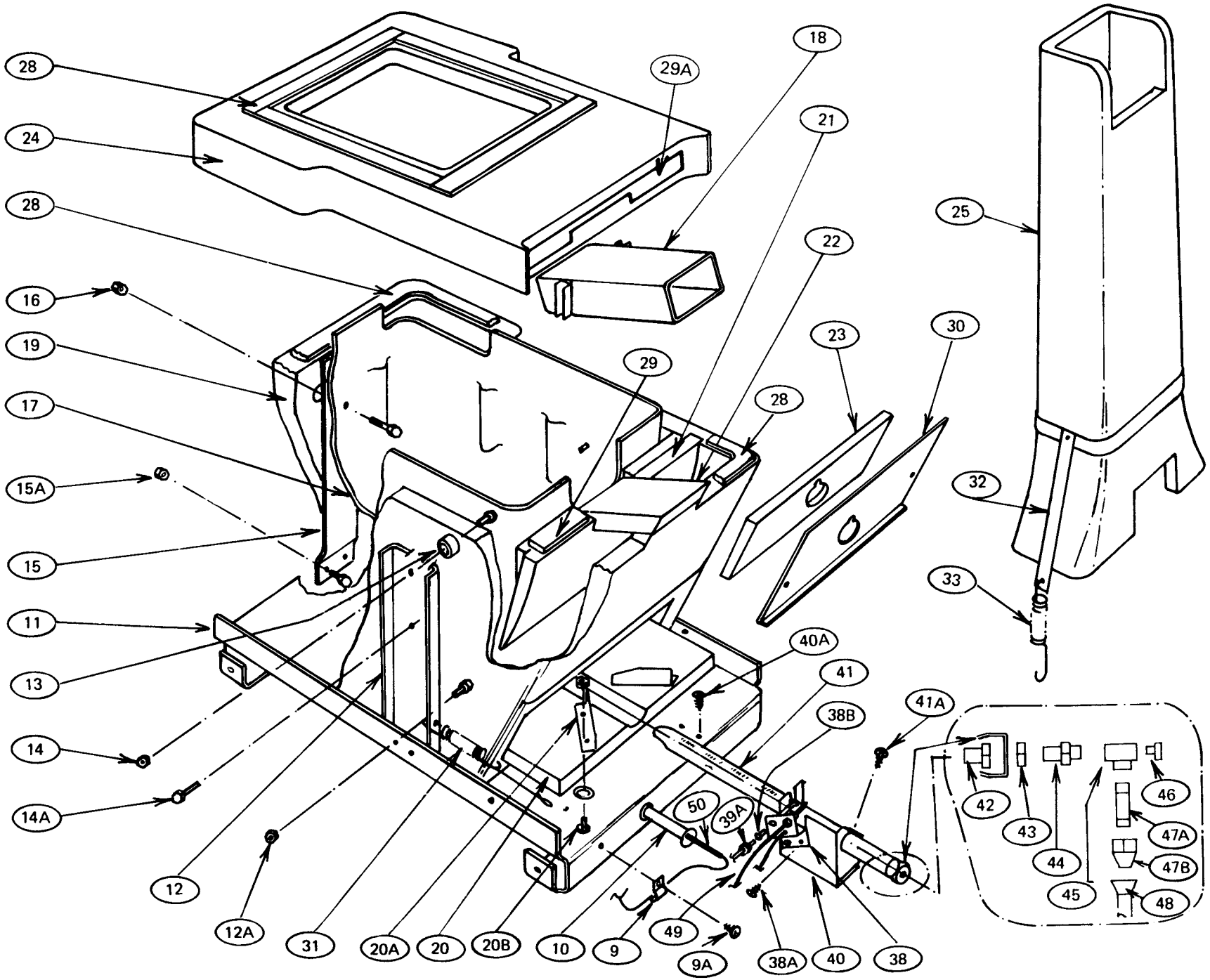


ILLUSTRATION 5 COMPONENTS - OUTER ASSEMBLY

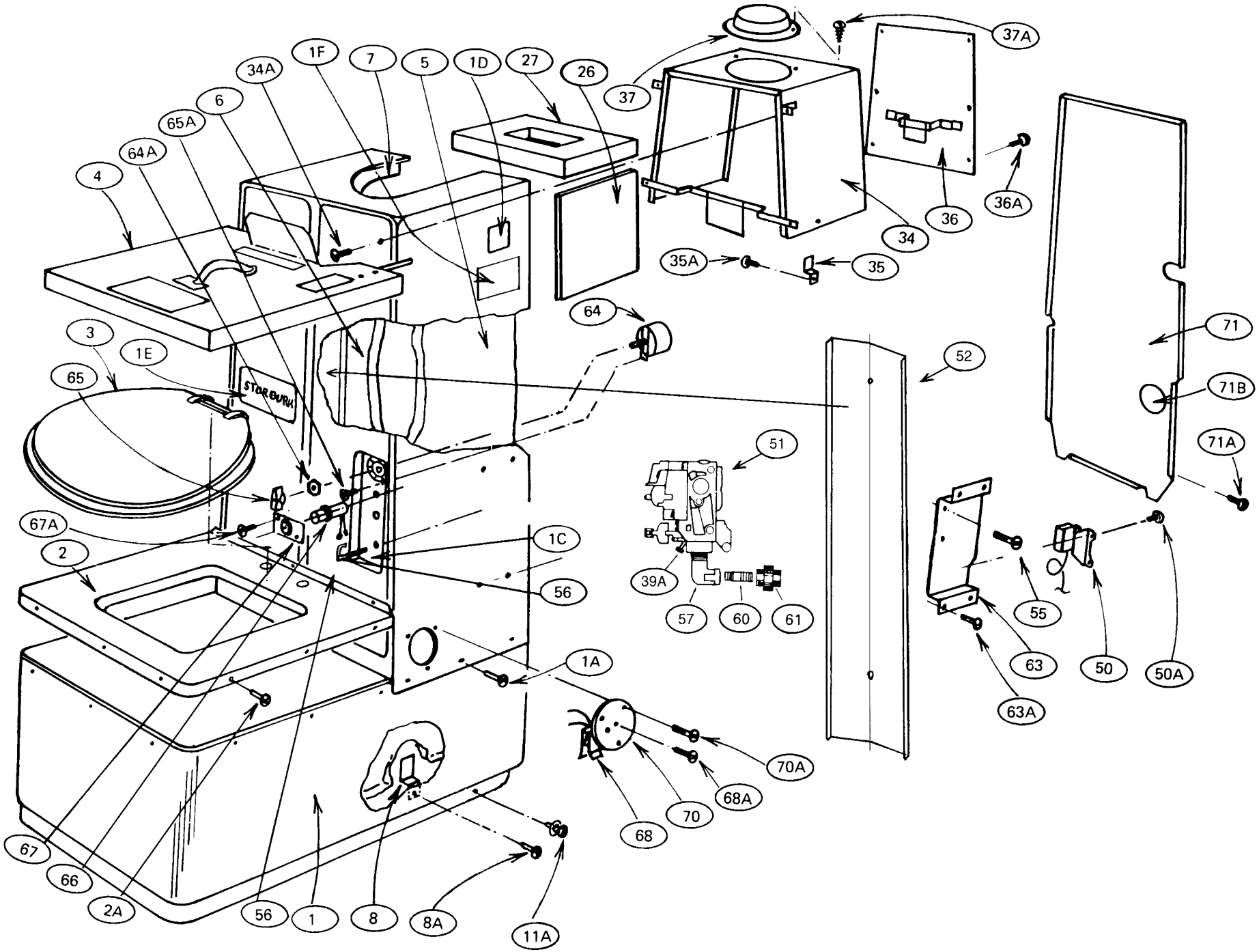
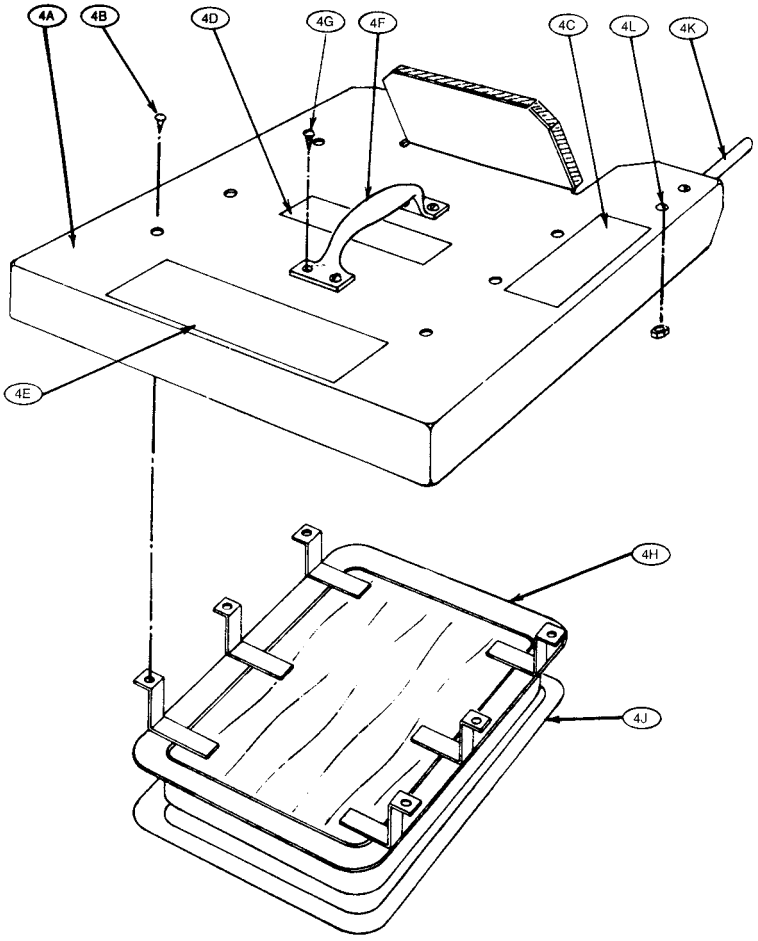


ILLUSTRATION 7
COVER PLUG COMPONENTS



NOTES

STORBURN®

Model 60K
Gas Fired Incinerating Toilet

Method of Operation

Simply use the toilet. The toilet can be used approximately 40 - 50 times before burning is necessary. The full mark is the smaller leg cast into the combustion chamber on the right hand side between the two larger reinforcing legs. Once the waste reaches the top of this leg, it is necessary to burn whether it is one use or one hundred uses.

Before starting the burn cycle, be sure to add the one packet of anti-foam into the liquid portion of the waste...not on top of the mountain. Refer to page 5 for operating instructions.

The burn cycle is very similar to boiling potatoes on the stove. As the combustion chamber heats up, the liquid starts to boil. As the liquid boils, it boils away the solids. As long as you do not go over the full mark, there can not be too much liquid in the combustion chamber. If the liquid boils away before all of the solids do there could be some goo left in the chamber. Add water and burn it again. Do not burn it again without adding water. If the goo gets caked onto the chamber it will act as an insulator and not enough heat will be transfered through the chamber. This will cause an odour outside during the burn cycle and the Storburn will not work properly until the combustion chamber is completely scraped clean. If there is not a lot of toilet paper and it is allowed to dry out, it will eventually hit the bottom of the combustion chamber and turn to ash. All that should be left after the four hour burn cycle is half a cup of sterile ash that you can either vacuum up when cool, or scoop up and put on your rose garden.

The combustion chamber never needs to be washed as it does work as a self cleaning oven and disinfects itself with each burn cycle. However it may need to be scraped clean every once in a while to remove any crusty buildup.

STORBURN®

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